

Howard A Padmore

List of Publications by Year in descending order

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238
papers

9,657
citations

50170

46
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42291

92
g-index

239
all docs

239
docs citations

239
times ranked

9121
citing authors

#	ARTICLE	IF	CITATIONS
1	Vortex Core-Driven Magnetization Dynamics. <i>Science</i> , 2004, 304, 420-422.	6.0	562
2	A SAXS/WAXS/GISAXS Beamline with Multilayer Monochromator. <i>Journal of Physics: Conference Series</i> , 2010, 247, 012007.	0.3	522
3	Direct observation of the alignment of ferromagnetic spins by antiferromagnetic spins. <i>Nature</i> , 2000, 405, 767-769.	13.7	441
4	Soft x-ray scattering facility at the Advanced Light Source with real-time data processing and analysis. <i>Review of Scientific Instruments</i> , 2012, 83, 045110.	0.6	420
5	Chemical composition mapping with nanometre resolution by soft X-ray microscopy. <i>Nature Photonics</i> , 2014, 8, 765-769.	15.6	371
6	Time-Resolved X-Ray Diffraction from Coherent Phonons during a Laser-Induced Phase Transition. <i>Physical Review Letters</i> , 2000, 84, 111-114.	2.9	345
7	Observation of Antiferromagnetic Domains in Epitaxial Thin Films. <i>Science</i> , 2000, 287, 1014-1016.	6.0	307
8	Scanning X-ray microdiffraction with submicrometer white beam for strain/stress and orientation mapping in thin films. <i>Journal of Synchrotron Radiation</i> , 2003, 10, 137-143.	1.0	245
9	Beamline 10.3.2 at ALS: a hard X-ray microprobe for environmental and materials sciences. <i>Journal of Synchrotron Radiation</i> , 2004, 11, 239-247.	1.0	245
10	Images of the Antiferromagnetic Structure of a NiO(100) Surface by Means of X-Ray Magnetic Linear Dichroism Spectromicroscopy. <i>Physical Review Letters</i> , 1999, 83, 1862-1865.	2.9	198
11	Principles of X-Ray Magnetic Dichroism Spectromicroscopy. <i>Surface Review and Letters</i> , 1998, 05, 1297-1308.	0.5	188
12	Photoemission electron microscope for the study of magnetic materials. <i>Review of Scientific Instruments</i> , 1999, 70, 3973-3981.	0.6	187
13	Performance of the vacuum ultraviolet high-resolution and high-flux beamline for chemical dynamics studies at the Advanced Light Source. <i>Review of Scientific Instruments</i> , 1997, 68, 1945-1951.	0.6	185
14	Molecular-Scale Speciation of Zn and Ni in Soil Ferromanganese Nodules from Loess Soils of the Mississippi Basin. <i>Environmental Science & Technology</i> , 2003, 37, 75-80.	4.6	171
15	Submicron x-ray diffraction and its applications to problems in materials and environmental science. <i>Review of Scientific Instruments</i> , 2002, 73, 1369-1372.	0.6	168
16	A dedicated superbend x-ray microdiffraction beamline for materials, geo-, and environmental sciences at the advanced light source. <i>Review of Scientific Instruments</i> , 2009, 80, 035108.	0.6	161
17	A beamline for high-pressure studies at the Advanced Light Source with a superconducting bending magnet as the source. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 650-658.	1.0	139
18	Performance of a high resolution, high flux density SGM undulator beamline at the ALS (invited). <i>Review of Scientific Instruments</i> , 1995, 66, 2037-2040.	0.6	136

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19	A new bend-magnet beamline for scanning transmission X-ray microscopy at the Advanced Light Source. <i>Journal of Synchrotron Radiation</i> , 2002, 9, 254-257.	1.0	120
20	Three-dimensional localization of nanoscale battery reactions using soft X-ray tomography. <i>Nature Communications</i> , 2018, 9, 921.	5.8	107
21	Coherent X-ray diffractive imaging: applications and limitations. <i>Optics Express</i> , 2003, 11, 2344.	1.7	106
22	Deciphering Ni sequestration in soil ferromanganese nodules by combining X-ray fluorescence, absorption, and diffraction at micrometer scales of resolution. <i>American Mineralogist</i> , 2002, 87, 1494-1499.	0.9	102
23	Optimization of soft x-ray monochromators (invited). <i>Review of Scientific Instruments</i> , 1989, 60, 1608-1615.	0.6	99
24	Dependence on Crystal Size of the Nanoscale Chemical Phase Distribution and Fracture in LiFePO_4 . <i>Nano Letters</i> , 2015, 15, 4282-4288.	4.5	99
25	Theory and practice of elliptically bent x-ray mirrors. <i>Optical Engineering</i> , 2000, 39, 2748.	0.5	92
26	Titanium ditelluride: Band structure, photoemission, and electrical and magnetic properties. <i>Physical Review B</i> , 1984, 29, 6797-6809.	1.1	88
27	Surface-Plasmon Resonance-Enhanced Multiphoton Emission of High-Brightness Electron Beams from a Nanostructured Copper Cathode. <i>Physical Review Letters</i> , 2013, 110, 074801.	2.9	88
28	A fast, direct x-ray detection charge-coupled device. <i>Review of Scientific Instruments</i> , 2009, 80, 083302.	0.6	86
29	High spatial resolution grain orientation and strain mapping in thin films using polychromatic submicron x-ray diffraction. <i>Applied Physics Letters</i> , 2002, 80, 3724-3726.	1.5	85
30	Suite of three protein crystallography beamlines with single superconducting bend magnet as the source. <i>Journal of Synchrotron Radiation</i> , 2004, 11, 447-455.	1.0	83
31	Experimental determination of the Pd and Cu densities of states in $\text{Cu}_{75}\text{Pd}_{25}$. <i>Physical Review B</i> , 1987, 35, 519-523.	1.1	82
32	Electromigration-induced plastic deformation in passivated metal lines. <i>Applied Physics Letters</i> , 2002, 81, 4168-4170.	1.5	82
33	X-ray photoemission electron microscopy, a tool for the investigation of complex magnetic structures (invited). <i>Review of Scientific Instruments</i> , 2002, 73, 1362-1366.	0.6	76
34	Picosecond soft x-ray absorption measurement of the photoinduced insulator-to-metal transition in VO_2 . <i>Physical Review B</i> , 2004, 69, .	1.1	75
35	Plasmon-Enhanced Photocathode for High Brightness and High Repetition Rate X-Ray Sources. <i>Physical Review Letters</i> , 2013, 110, 076802.	2.9	74
36	The O 1s x-ray absorption spectra of transition-metal oxides: The TiO_2 ~ ZrO_2 ~ HfO_2 and V_2O_5 ~ Nb_2O_5 ~ Ta_2O_5 series. <i>Solid State Communications</i> , 1993, 87, 699-703.	0.9	70

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37	Ultrafast x-ray diffraction using a streak-camera detector in averaging mode. <i>Optics Letters</i> , 1997, 22, 1012.	1.7	65
38	Plasmonic light trapping in nanostructured metal surfaces. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	63
39	High resolution soft X-ray bending magnet beamline 9.3.2 with circularly polarized radiation capability at the Advanced Light Source. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1996, 80, 401-404.	0.8	62
40	Early stage of plastic deformation in thin films undergoing electromigration. <i>Journal of Applied Physics</i> , 2003, 94, 3757-3761.	1.1	55
41	Local Plasticity of Al Thin Films as Revealed by X-Ray Microdiffraction. <i>Physical Review Letters</i> , 2003, 90, 096102.	2.9	55
42	A 10,000 groove/mm multilayer coated grating for EUV spectroscopy. <i>Optics Express</i> , 2011, 19, 6320.	1.7	55
43	A low emittance and high efficiency visible light photocathode for high brightness accelerator-based X-ray light sources. <i>Applied Physics Letters</i> , 2011, 99, 034103.	1.5	54
44	High spatial resolution stress measurements using synchrotron based scanning X-ray microdiffraction with white or monochromatic beam. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 399, 92-98.	2.6	51
45	An x-ray streak camera with high spatio-temporal resolution. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	47
46	Near atomically smooth alkali antimonide photocathode thin films. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	47
47	An ultrahigh-resolution soft x-ray microscope for quantitative analysis of chemically heterogeneous nanomaterials. <i>Science Advances</i> , 2020, 6, .	4.7	47
48	A photoemission study of ultra-thin palladium overlayers on low-index faces of silver. <i>Journal of Physics C: Solid State Physics</i> , 1982, 15, 6481-6496.	1.5	46
49	Photoelectron bremsstrahlung spectrum in synchrotron radiation excited total reflection x-ray fluorescence analysis of silicon wafers. <i>Journal of Applied Physics</i> , 1999, 86, 902-908.	1.1	46
50	Soft X-ray spectromicroscopy development for materials science at the Advanced Light Source. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1997, 84, 85-98.	0.8	45
51	An x-ray photoemission electron microscope using an electron mirror aberration corrector for the study of complex materials. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S1339-S1350.	0.7	45
52	Enhancement of diffraction efficiency via higher-order operation of a multilayer blazed grating. <i>Optics Letters</i> , 2014, 39, 3157.	1.7	44
53	The undulator beamline at the SRS Daresbury. <i>Review of Scientific Instruments</i> , 1992, 63, 1313-1316.	0.6	43
54	Synchrotron-based impurity mapping. <i>Journal of Crystal Growth</i> , 2000, 210, 395-400.	0.7	42

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55	High-efficiency 5000 lines/mm multilayer-coated blazed grating for extreme ultraviolet wavelengths. <i>Optics Letters</i> , 2010, 35, 2615.	1.7	42
56	Metal-Insulator Transitions in an Expanding Metallic Fluid: Particle Formation Kinetics. <i>Physical Review Letters</i> , 2003, 90, 236102.	2.9	41
57	Enhancement of reflectivity of multilayer mirrors for soft x-ray projection lithography by temperature optimization and ion bombardment. <i>Microelectronic Engineering</i> , 1994, 23, 215-218.	1.1	39
58	Near-edge X-ray refraction fine structure microscopy. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	39
59	Soft X-ray Ptychographic Imaging and Morphological Quantification of Calcium Silicate Hydrates (C-S-H). <i>Journal of the American Ceramic Society</i> , 2015, 98, 4090-4095.	1.9	38
60	Thermal limit to the intrinsic emittance from metal photocathodes. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	38
61	Element-specific spin and orbital momentum dynamics of Fe-Gd multilayers. <i>Applied Physics Letters</i> , 2007, 90, 162503.	1.5	37
62	A multiplexed high-resolution imaging spectrometer for resonant inelastic soft X-ray scattering spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 736-743.	1.0	37
63	<title>Femtosecond x-ray diffraction: experiments and limits</title>. , 2001, , .		36
64	Plasmon resonance tuning in metallic nanocavities. <i>Scientific Reports</i> , 2012, 2, 933.	1.6	36
65	Ultracold Electrons via Near-Threshold Photoemission from Single-Crystal Cu(100). <i>Physical Review Letters</i> , 2020, 125, 054801.	2.9	35
66	Characterization of Conditions Required for X-Ray Diffraction Experiments with Protein Microcrystals. <i>Biophysical Journal</i> , 2000, 78, 3178-3185.	0.2	32
67	Variable linear polarization from an X-ray undulator. <i>Journal of Synchrotron Radiation</i> , 2002, 9, 270-274.	1.0	32
68	Use of extended and prepared reference objects in experimental Fourier transform x-ray holography. <i>Applied Physics Letters</i> , 2004, 85, 2454-2456.	1.5	32
69	Controlled Orientation of Block Copolymers on Defect-Free Faceted Surfaces. <i>Advanced Materials</i> , 2012, 24, 4278-4283.	11.1	32
70	Direct observation of bi-alkali antimonide photocathodes growth via <i>in operando</i> x-ray diffraction studies. <i>APL Materials</i> , 2014, 2, .	2.2	32
71	Iron on palladium (111) studied with photoemission, low-energy electron diffraction, and Auger-electron spectroscopy. <i>Physical Review B</i> , 1986, 34, 8221-8229.	1.1	30
72	Advanced environmental control as a key component in the development of ultrahigh accuracy <i>ex situ</i> metrology for x-ray optics. <i>Optical Engineering</i> , 2015, 54, 104104.	0.5	30

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73	High-order multilayer coated blazed gratings for high resolution soft x-ray spectroscopy. Optics Express, 2015, 23, 4771.	1.7	29
74	Fundamental photoemission brightness limit from disorder induced heating. New Journal of Physics, 2013, 15, 103024.	1.2	27
75	A grazing incidence x-ray streak camera for ultrafast, single-shot measurements. Applied Physics Letters, 2010, 96, 134102.	1.5	26
76	Conformal growth of Mo/Si multilayers on grating substrates using collimated ion beam sputtering. Journal of Applied Physics, 2012, 111, 093521.	1.1	26
77	Ultra-high efficiency multilayer blazed gratings through deposition kinetic control. Optics Letters, 2012, 37, 1628.	1.7	25
78	Resonant Soft X-ray Scattering of Polymers with a 2D Detector: Initial Results and System Developments at the Advanced Light Source. IOP Conference Series: Materials Science and Engineering, 2010, 14, 012016.	0.3	24
79	Mesoscale x-ray diffraction measurement of stress relaxation associated with buckling in compressed thin films. Applied Physics Letters, 2003, 83, 51-53.	1.5	23
80	Spin-orbit gap effects on the surface electronic structure of Ag(0 0 1) around $M_{\bar{1}}$. Solid State Communications, 1988, 67, 163-167.	0.9	21
81	Clear evidence for strain changes according to Co layer thickness in metastable Co/Pd(111) multilayers: An extended x-ray absorption fine structure study. Physical Review B, 1996, 53, 11114-11119.	1.1	21
82	X-ray microdiffraction: local stress distributions in polycrystalline and epitaxial thin films. Microelectronic Engineering, 2004, 75, 117-126.	1.1	21
83	X-ray diffraction gratings: Precise control of ultra-low blaze angle via anisotropic wet etching. Applied Physics Letters, 2016, 109, .	1.5	21
84	Temperature-dependent quantum efficiency degradation of K-Cs-Sb bialkali antimonide photocathodes grown by a triple-element codeposition method. Physical Review Accelerators and Beams, 2017, 20, .	0.6	21
85	Application Of A Simple Rotational Spherical Grating Mounting To High Resolution Soft X-Ray Spectroscopy. Proceedings of SPIE, 1986, , .	0.8	20
86	A high-energy spherical grating monochromator for soft x rays at the Daresbury SRS. Review of Scientific Instruments, 1992, 63, 4349-4353.	0.6	20
87	A SOFT X-RAY UNDULATOR BEAMLINE AT THE ADVANCED LIGHT SOURCE WITH CIRCULAR AND VARIABLE LINEAR POLARIZATION FOR THE SPECTROSCOPY AND MICROSCOPY OF MAGNETIC MATERIALS. Surface Review and Letters, 2002, 09, 549-554.	0.5	20
88	Collective behavior of impedance matched plasmonic nanocavities. Optics Express, 2012, 20, 7685.	1.7	20
89	A novel system for measurement of the transverse electron momentum distribution from photocathodes. Review of Scientific Instruments, 2015, 86, 015103.	0.6	20
90	The interaction of nitrogen with titanium studied by soft X-ray absorption spectroscopy: adsorption versus implantation. Surface Science, 1993, 281, 120-126.	0.8	19

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91	<title>New schemes for producing high-accuracy elliptical x-ray mirrors by elastic bending</title> . , 1996, 2856, 145.		19
92	Characterization of CsI photocathodes at grazing incidence for use in a unit quantum efficiency x-ray streak camera. Review of Scientific Instruments, 2004, 75, 3131-3137.	0.6	19
93	Control of surface mobility for conformal deposition of MoSi multilayers on saw-tooth substrates. Applied Surface Science, 2013, 284, 575-580.	3.1	19
94	A new x-ray optics laboratory (XROL) at the ALS: mission, arrangement, metrology capabilities, performance, and future plans. Proceedings of SPIE, 2014, , .	0.8	19
95	Refraction effects in soft x-ray multilayer blazed gratings. Optics Express, 2016, 24, 11334.	1.7	19
96	Bi-alkali antimonide photocathode growth: An X-ray diffraction study. Journal of Applied Physics, 2016, 120, .	1.1	19
97	Electronic Polaron Excitations in the X-Ray Absorption Spectrum of TiO ₂ . Europhysics Letters, 1990, 11, 67-72.	0.7	18
98	Correction and alignment strategies for the beam separator of the photoemission electron microscope 3 (PEEM3). Review of Scientific Instruments, 2005, 76, 023302.	0.6	18
99	The use of Cooper minima effects and resonant photoemission in the study of the electronic structure of dilute alloys. Journal of Physics F: Metal Physics, 1987, 17, 657-665.	1.6	17
100	Exploring the microscopic origin of exchange bias with photoelectron emission microscopy (invited). Journal of Applied Physics, 2001, 89, 7266-7268.	1.1	17
101	Methodology for optimal in situ alignment and setting of bendable optics for nearly diffraction-limited focusing of soft x-rays. Optical Engineering, 2013, 52, 033603.	0.5	17
102	Elliptically Bent X-Ray Mirrors with Active Temperature Stabilization. X-Ray Optics and Instrumentation, 2010, 2010, 1-9.	0.7	16
103	Reduction of Intrinsic Electron Emittance from Photocathodes Using Ordered Crystalline Surfaces. Physical Review Letters, 2017, 118, 164802.	2.9	16
104	Comparison of theory and experiment for angularly resolved photoemission from Ag(001) in the photon energy range 40 to 100 eV. Journal of Physics C: Solid State Physics, 1982, 15, L155-L158.	1.5	15
105	Constant final state spectroscopy of the interlayer state in graphite. Journal of Physics C: Solid State Physics, 1985, 18, L297-L302.	1.5	15
106	Soft X-ray Monochromators for Third-Generation Undulator Sources. Journal of Synchrotron Radiation, 1994, 1, 27-36.	1.0	15
107	Microtexture and Strain in Electroplated Copper Interconnects. Materials Research Society Symposia Proceedings, 2000, 612, 1031.	0.1	15
108	Modeling the acceleration field and objective lens for an aberration corrected photoemission electron microscope. Review of Scientific Instruments, 2002, 73, 1514-1517.	0.6	15

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109	New Implementation of an SX700 Undulator Beamline at the Advanced Light Source. AIP Conference Proceedings, 2004, , .	0.3	15
110	The Advanced Light Source (ALS) Slicing Undulator Beamline. AIP Conference Proceedings, 2007, , .	0.3	15
111	Surface and bulk contribution to Cu(111) quantum efficiency. Applied Physics Letters, 2008, 93, 183505.	1.5	15
112	High-efficiency multilayer blazed gratings for EUV and soft x-rays: recent developments. Proceedings of SPIE, 2010, , .	0.8	15
113	Synchrotron x-ray study of a low roughness and high efficiency $K_{2\text{CsSb}}$ photocathode during film growth. Journal Physics D: Applied Physics, 2017, 50, 205303.	1.3	15
114	Synthesis and x-ray characterization of sputtered bi-alkali antimonide photocathodes. APL Materials, 2017, 5, 116104.	2.2	15
115	Large area nanoimprint enables ultra-precise x-ray diffraction gratings. Optics Express, 2017, 25, 23334.	1.7	15
116	Ptychographic Imaging of Nano-Materials at the Advanced Light Source with the Nanosurveyor Instrument. Journal of Physics: Conference Series, 2017, 849, 012028.	0.3	15
117	Brightness of femtosecond nonequilibrium photoemission in metallic photocathodes at wavelengths near the photoemission threshold. Journal of Applied Physics, 2018, 124, .	1.1	15
118	An angle-resolved photoemission study of Cr(110) surface magnetism. Vacuum, 1983, 33, 815-817.	1.6	13
119	Performance of the Daresbury synchrotron radiation source soft x-ray double-crystal monochromator. Review of Scientific Instruments, 1992, 63, 1322-1325.	0.6	13
120	Lamellar multilayer gratings with very high diffraction efficiency. , 1997, , .		13
121	Grazing incidence reflectivity and total electron yield effects in soft x-ray absorption spectroscopy. Journal of Applied Physics, 1997, 82, 3120-3124.	1.1	13
122	Metal-insulator transitions in an expanding metallic fluid: particle formation during femtosecond laser ablation. Chemical Physics, 2004, 299, 171-181.	0.9	13
123	One-step model of photoemission from single-crystal surfaces. Physical Review B, 2017, 95, .	1.1	13
124	Nanosurveyor 2: A Compact Instrument for Nano-Tomography at the Advanced Light Source. Journal of Physics: Conference Series, 2017, 849, 012047.	0.3	13
125	<title>Progress toward submicron hard x-ray imaging using elliptically bent mirrors</title>. , 1997, 3152, 126.		12
126	Sub-micron white-beam focusing using elliptically bent mirrors. Synchrotron Radiation News, 1997, 10, 18-26.	0.2	12

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127	Solving non-periodic structures using direct methods: phasing diffuse scattering. Acta Crystallographica Section A: Foundations and Advances, 2003, 59, 255-261.	0.3	12
128	Fabrication and characterization of a new high density Sc/Si multilayer sliced grating. Proceedings of SPIE, 2008, , .	0.8	12
129	Development of in situ, at-wavelength metrology for soft X-ray nano-focusing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 649, 160-162.	0.7	12
130	The COSMIC Imaging Beamline at the Advanced Light Source: a new facility for spectro-microscopy of nano-materials. Microscopy and Microanalysis, 2018, 24, 8-11.	0.2	12
131	Design and performance of the ALS diagnostic beamline. Review of Scientific Instruments, 1996, 67, 3368-3368.	0.6	11
132	Light trapping in plasmonic nanocavities on metal surfaces. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, 06FF01.	0.6	11
133	Ultra-low blaze angle gratings for synchrotron and free electron laser applications. Optics Express, 2018, 26, 22011.	1.7	11
134	The surface electronic structure of Ag(001) and Ag(111) studied with multichannel detection angle-resolved photoemission. Vacuum, 1988, 38, 261-265.	1.6	10
135	Soft x-ray spectroscopy in atmospheric pressure helium. Review of Scientific Instruments, 1992, 63, 1482-1485.	0.6	10
136	Grain Orientation and Strain Measurements in Sub-Micron wide Passivated Individual Aluminum Test Structures. Materials Research Society Symposia Proceedings, 2000, 612, 881.	0.1	10
137	An ultra-fast x-ray streak camera for the study of magnetization dynamics. , 2005, 5920, 73.		10
138	Dispersive x-ray absorption spectroscopy with gratings above 2 keV. Review of Scientific Instruments, 2005, 76, 063102.	0.6	10
139	Compressive phase contrast tomography. Proceedings of SPIE, 2010, , .	0.8	10
140	In situ fine tuning of bendable soft x-ray mirrors using a lateral shearing interferometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 710, 82-86.	0.7	10
141	Real-time data-intensive computing. AIP Conference Proceedings, 2016, , .	0.3	10
142	A design of resonant inelastic X-ray scattering (RIXS) spectrometer for spatial- and time-resolved spectroscopy. Journal of Synchrotron Radiation, 2020, 27, 695-707.	1.0	10
143	New developments in soft X-ray monochromators for third generation synchrotron radiation sources. Journal of Electron Spectroscopy and Related Phenomena, 1995, 75, 9-22.	0.8	9
144	X-Ray Magnetic Circular Dichroism Spectroscopy and Microscopy. MRS Bulletin, 1995, 20, 41-44.	1.7	9

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145	A stigmatic ultraviolet-visible monochromator for use with a high brightness laser driven plasma light source. Review of Scientific Instruments, 2013, 84, 085114.	0.6	9
146	Development of coherent scattering and diffractive imaging and the COSMIC facility at the Advanced Light Source. Journal of Physics: Conference Series, 2013, 425, 192011.	0.3	9
147	Multilayer-coated blazed grating with variable line spacing and a variable blaze angle. Optics Letters, 2014, 39, 6134.	1.7	9
148	Modeling quantum yield, emittance, and surface roughness effects from metallic photocathodes. Journal of Applied Physics, 2017, 122, .	1.1	9
149	Photoemission from low-dimensional systems. Surface Science, 1983, 126, 258-264.	0.8	8
150	Experimental characterization of ALS undulator radiation. Review of Scientific Instruments, 1995, 66, 1885-1888.	0.6	8
151	The macromolecular crystallography facility at the advanced light source. Synchrotron Radiation News, 1998, 11, 18-25.	0.2	8
152	Imaging spectroscopic analysis at the advanced light source. Synchrotron Radiation News, 1998, 11, 5-22.	0.2	8
153	A Simple High Performance Beamline for Small Molecule Chemical Crystallography. AIP Conference Proceedings, 2004, , .	0.3	8
154	Shear at Twin Domain Boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Physical Review Letters, 2004, 92, 216105.	2.9	8
155	Progress on PEEM3 " An Aberration Corrected X-Ray Photoemission Electron Microscope at the ALS. AIP Conference Proceedings, 2007, , .	0.3	8
156	Roughening and smoothing behavior of Al/Zr multilayers grown on flat and saw-tooth substrates. Proceedings of SPIE, 2011, , .	0.8	8
157	Development of a 3-D energy-momentum analyzer for meV-scale energy electrons. Review of Scientific Instruments, 2019, 90, 053902.	0.6	8
158	A high counting rate parallel-plate gas proportional counter for fluorescence extended x-ray absorption fine structure studies. Review of Scientific Instruments, 1992, 63, 837-841.	0.6	7
159	The macromolecular crystallography facility at the advanced light source. Journal of Crystal Growth, 1996, 168, 248-252.	0.7	7
160	A recirculating linac for ultrafast X-ray science. Synchrotron Radiation News, 2001, 14, 26-31.	0.2	7
161	ALS Beamline 6.0 For Ultrafast X-ray Absorption Spectroscopy. AIP Conference Proceedings, 2004, , .	0.3	7
162	Laser pump and X-ray probe surface photovoltage spectroscopy on Si(111). Journal of Modern Optics, 2004, 51, 2805-2811.	0.6	7

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163	Development of near atomically perfect diffraction gratings for EUV and soft x-rays with very high efficiency and resolving power. Journal of Physics: Conference Series, 2013, 425, 152006.	0.3	7
164	Spontaneous formation of highly periodic nano-ripples in inclined deposition of Mo/Si multilayers. Journal of Applied Physics, 2017, 122, .	1.1	7
165	Local Microstructure and Stress in Al(Cu) Thin Film Structures Studied by X-Ray Microdiffraction. Materials Research Society Symposia Proceedings, 2001, 673, 1.	0.1	6
166	Development of an ultrahigh-resolution diffraction grating for soft x-rays. , 2007, , .		6
167	5000 groove/mm multilayer-coated blazed grating with 33% efficiency in the 3rd order in the EUV wavelength range. Proceedings of SPIE, 2009, , .	0.8	6
168	Advanced Light Source Update. Synchrotron Radiation News, 2012, 25, 25-30.	0.2	6
169	Fabrication of x-ray gratings by direct write maskless lithography. Proceedings of SPIE, 2013, , .	0.8	6
170	Metrology for the Advancement of X-ray Optics at the ALS. Synchrotron Radiation News, 2013, 26, 4-12.	0.2	6
171	Simulations of applications using diaboloid mirrors. Journal of Synchrotron Radiation, 2021, 28, 1041-1049.	1.0	6
172	Diaboloidal mirrors: algebraic solution and surface shape approximations. Journal of Synchrotron Radiation, 2021, 28, 1031-1040.	1.0	6
173	Spin waves excitation at micron-sized, anisotropy modified regions in amorphous Fe ₈₀ B ₂₀ stripes: Local properties and inter-regions coupling. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115258.	1.7	6
174	Core excitons in silicon and silicon oxides. Review of Scientific Instruments, 1995, 66, 1480-1482.	0.6	5
175	Optimization design study for an elliptical wiggler at the Advanced Light Source. Review of Scientific Instruments, 1995, 66, 1940-1942.	0.6	5
176	<title>Design, analysis, and performance of an epoxy-bonded bendable mirror</title>. , 1998, 3447, 40.		5
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